Stellar Astrophysics covers the physics of stars and stellar systems. The development is quantitative and requires an understanding of introductory physics and calculus.

Text:
Class Notes on D2L
Class Meeting: 12:30 - 1:45  TR in STEM 103

- Provide students the opportunity to use the physics they have learned in understanding the nature of the universe.
- Provide rigorous theory where possible and justifiable approximations when the mathematics becomes graduate level.
- Show that the universe is comprehensible and can be understood.
Course Outline and Exam Schedule

Section I: The Tools of Astronomy
- Chapter 1: The Celestial Sphere
- Chapter 2: Celestial Mechanics
- Chapter 3: The Continuous Spectrum of Light

Section III: The Nature of Stars II
- Chapter 7: Stellar Atmospheres
- Chapter 8: The Interiors of Stars

Exam 1 February 14
Exam 3 April 16

Section II: The Nature of Stars I
- Chapter 4: The Interaction of Light and Matter
- Chapter 5: Binary Stars and Star Parameters
- Chapter 6: The Classification of Stellar Spectra

Section IV: The Nature of Stars III
- Chapter 9: The Sun
- Chapter 10: The Process of Star Formation

Exam 2 March 12
Final Exam May 16 10\textsuperscript{30} - 12\textsuperscript{30}

Tentative Problem Assignments:

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Due Date</th>
<th>Problems</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan. 24</td>
<td>2, 3, 4, 5, 8, and 9</td>
</tr>
<tr>
<td>2</td>
<td>Feb. 2</td>
<td>6, 8, and 14</td>
</tr>
<tr>
<td>3</td>
<td>Feb. 7</td>
<td>3, 7, 8, 9</td>
</tr>
<tr>
<td>4</td>
<td>Feb. 16</td>
<td>7, 8, 9, 10, 11, 15, and 17</td>
</tr>
<tr>
<td>5</td>
<td>Feb. 23</td>
<td>3, 4, 6, and 7</td>
</tr>
<tr>
<td>6</td>
<td>Mar. 2</td>
<td>4, 6, 10, 15, and 16</td>
</tr>
<tr>
<td>7</td>
<td>Mar. 23</td>
<td>6, 11, 25, and 27</td>
</tr>
<tr>
<td>8</td>
<td>Apr. 4</td>
<td>3, 4, 10, 13, 21, and 22</td>
</tr>
<tr>
<td>9</td>
<td>Apr. 20</td>
<td>1, 2, 5, 16</td>
</tr>
<tr>
<td>10</td>
<td>May 4</td>
<td>1, 2, 7, 15</td>
</tr>
</tbody>
</table>

Grading:

Exams 3 @ 20% 60%
Final Exam 20%
Problem Set Average 20%

A 90 - 100
B 80 - 89
C 70 - 79
D 60 - 69
F < 60
Academic Integrity (A-9.1)

Abiding by university policy on academic integrity is a responsibility of all university faculty and students. Faculty members must promote the components of academic integrity in their instruction, and course syllabi are required to provide information about penalties for cheating and plagiarism as well as the appeal process. *(Much of this information will be provided through internet links.)*

Definition of Academic Dishonesty

Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one’s own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one’s paper without giving the author due credit.

Please read the complete policy at


Withheld Grades Semester Grades Policy (A-54)

At the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future semesters, the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

Students with Disabilities

To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. This syllabus and other course materials can be made available in other formats.